

**TRANSITION METAL OLEFIN POLYMERIZATION CATALYST HAVING**  
**CYCLOPROPENYL DERIVED LIGANDS**

**ABSTRACT**

*Sub* This invention is directed to cationic polymerization of olefins using catalysts comprising a Group 3, 4, 5, 6, 8, or 10 transition metal cation composition wherein at least one ligand coordinated to the transition metal is a cyclopropenyl moiety. The neutral transition metal compound catalyst precursor is activated to a catalyst state by exposure to an activator composition which may be any of the heretofore known activator compositions such as alumoxane or a compatible non-coordinating anion (NCA).

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